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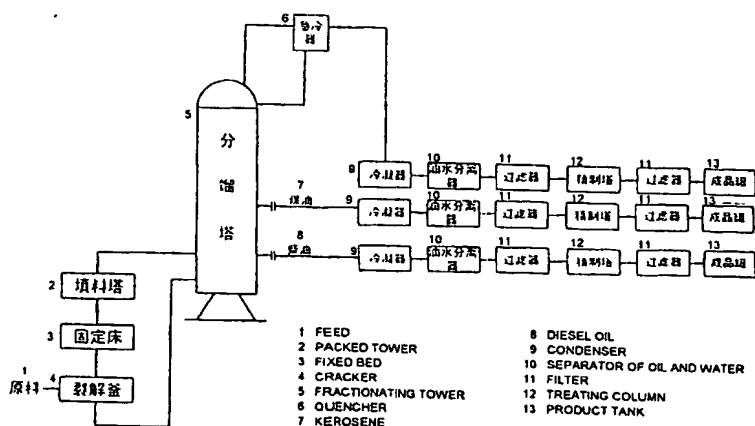
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(54) Title: A PROCESS AND A DEVICE FOR PRODUCING GASOLINE, KEROSENE AND DIESEL OIL FROM
WASTE PLASTIC, RUBBER AND MACHINE OIL

(54) 发明名称: 用废弃塑料、橡胶、机油生产汽、煤、柴油的方法及装置



(57) Abstract: A process and a device that produce gasoline, kerosene and diesel oil from waste plastic, rubber and machine oil, the device comprises successively cracker, fixed bed, Packed tower, fractionating tower, the top part of the fractionating tower connects with gasoline quencher, and the quencher links condenser, separator of oil and water, filter, and gasoline treating column in series, the latter is connected with filter, finished product tank; the kerosene fraction from the middle part of the fractionating tower and the diesel oil fraction from the lower part enter condenser, separator of oil and water, filter, and treating column in series respectively, the residue from the bottom returns back to the cracker. In this invention, quartz and sand are added during cracking; one step process is used in fixed bed; a chemical agent for removing the odor and changing the color is added during the fractionating. The device in this invention has low cost and reduced volume, which simplifies the process and shortens the production cycle, the oil product obtained has good quality and high yield.

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(57) 摘要

利用废弃塑料、橡胶、机油生产汽、煤、柴油的工艺及装置，依次包括裂解釜、固定床、填料塔、分馏塔，分馏塔的塔顶连接汽油馏分急冷器，急冷器依次连接冷凝器、油水分离器、过滤器、汽油精制塔，汽油精制塔依次连接过滤器、成品罐；分馏塔的中部煤油馏分、下部柴油馏分分别依次连接冷凝器、油水分离器、过滤器、精制塔。分馏塔塔底的重油组分回到裂解釜。本发明在裂解时加入了石英石和沙粒；固定床采用了一步法；分馏过程中加入了除味、改变颜色的化学药剂。本发明设备投资简单、体积可以缩小，工艺简化，缩短了生产周期，得到的油品质量好，收率高。